

Title (en)

BASE POLYMER FOR PERCUTANEOUSLY ABSORBABLE PREPARATION.

Title (de)

BASISPOLYMER FÜR TRANSDERMAL ABSORBIERBARE ZUBEREITUNGEN.

Title (fr)

POLYMERES DE BASE POUR PREPARATION ABSORBABLE PAR VOIE PERCUTANEE.

Publication

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Application

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Priority

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- JP 20883093 A 19930730

Abstract (en)

A base polymer for percutaneously absorbable preparations that is solid at ordinary temperatures but turns into a low-viscosity liquid near the human skin temperature, contains a hydrophilic segment, is responsive to heat and water, and enables drugs which have been difficult to compound into a percutaneously absorbable preparation to be stored stably for long and absorbed percutaneously with a high releasability and a high sustained releasability without causing much skin stimulation. The polymer comprises a heat-responsive segmented polyurethane represented by the general formula R-A-(U)-C-(U)-B-R<1>, wherein A and B represent each independently a polymer of ethylene oxide, propylene oxide, tetramethylene oxide or 1,2-butylene oxide, or a random or block copolymer thereof; R and R<1> represent each H, CH₃, C₂H₅, C₃H₇ or C₄H₉ as the terminal group of A and B, respectively; C represents a residue of a diisocyanate compound; and (U) represents a urethane linkage; and wherein at least one of A and B is hydrophilic and at the same time will melt near the human skin temperature. <IMAGE>

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